

Generations According to Strict 15-Year Blocks (Gregorian Calendar, No Year 0)

Definition of Gregorian Calendar:

The Gregorian calendar is the internationally accepted civil calendar.

- It has no year 0: 1 BCE is directly followed by 1 CE.
- Counting is based on natural numbers starting at 1, not 0.

Generational Concept:

Generations are defined as 15-year blocks (quindecennials).

Each generation runs inclusive of its end year.

This ensures consistency with the Gregorian system, where the first year is 1 CE.

Arithmetic Progression (AP) Calculation:

Formula: $a_n = a_1 + (n-1) \times d$

- $d = 15$ (common difference, block length)
- $a_1 = 2010$ (end year under test)
- We test if 2010 fits exactly as an end year of a block.

Step-by-step:

1. Divide 2010 by 15:
 $2010 \div 15 = 134$ remainder 0.
2. Since there is no remainder, 2010 is perfectly divisible by 15.
3. Therefore, $n = 134$ is an integer $\rightarrow$ the 134th block ends at 2010.
4. Hence, 2010 is the last year of Gen Z (31 Dec 2010).

Generations Table:

Generation	Start Year	End Year	Notes
Gen X	1966	1980	15-year block
Gen Y	1981	1995	15-year block
Gen Z	1996	2010	15-year block
Gen Alpha	2011	2025	15-year block
Gen Beta	2026	2040	15-year block

Notes:

- Each generation is 15 years long, assigned strictly according to the adjusted start and end years.

- 2010 is the last year of Gen Z (ending 31 Dec 2010).
- Example: Someone born on 11 October 2010 is in Gen Z.
- The end year of each generation is divisible by 15, which proves the arithmetic progression division.
- **In a sequence of consecutive natural numbers starting from 1, if we group the numbers into series of equal length n , then the last number in each series is always divisible by n . For example, if $n = 10$, the first three series are 1-10, 11-20, and 21-30. Here, the last number of each series is divisible by 10, i.e., by n .**
- By the above mathematical concept, it is proved that the Gen Z ended in the end of 2010, as this series of years in the CE period, is a series of natural numbers as there is no year 0, 1 BCE is directly followed by 1CE, and 2010 being divisible by 15 proves that Gen Z was until 2010 not 2009 or 2011.
- Using 2010 as the start year of Gen Alpha would imply the calendar began with year 0, which is false.
- **This is the same misconception as believing the 21st century or 3rd millennium started in 2000, when in reality it started in 2001.**

Why is it there a misconception about the Gen Alpha began in 2010 rather 2010??

- People have the habits of rounding off to the nearest number like 2011 rounded off to 2010 and much like the confusion of the start of 21st century confused between 1 January 2001 and 2000 but the actual starting year is 2001. Thus it is often said that the Gen Z started in 1995 and continued till the end of 2010.
- Many even say 1997-2012 which means that it started in 1997 and was ended with the start of 2012 well that's incorrect.
- Both mathematically and conceptually Gen Z last from 1 January 1996 to 31 December 2010, thus other kind of misconceptions should not be present in the minds of people. The real timeline of Gen Alpha would be 1 January 2011 to 31 December 2025.
- This concept is the most accurate concept as it satisfies the Gregorian Calendar (which we use) and the concepts of mathematics, and additionally it also aligns exactly between the two other series of Gen Z: 1997-2011 and 1995-2010.

The Correct Timeline

- **Gen Z:** 1 Jan 1996 – 31 Dec 2010
- **Gen Alpha:** 1 Jan 2011 – 31 Dec 2025

This concept is the most accurate because: 1. It satisfies the rules of the **Gregorian calendar** (no year 0). 2. It follows **mathematical**

logic (divisibility in AP). 3. It aligns neatly between commonly cited ranges (1995–2010 and 1997–2011).

Therefore, anyone born in 2010 is **Gen Z**, while anyone born in 2011–2025 is **Gen Alpha**.

As of today (19th September 2025), when I'm writing this article, if anyone child is born will be considered as the part of **Generation Alpha**.

(Research conducted by Niral Bhatt.)

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